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UTILITY PATENT APPLICATION **TRANSMITTAL**

(Only for new nonprovisional applications under 37 CFR 1.53(b))

| Attorney Docket No. | 028CIP-119 | | | | |
|------------------------|---|--|--|--|--|
| First Inventor | John SANTHOFF | | | | |
| Title | Ultra-Wideband Communication Through a Power Grid | | | | |
| Express Mail Label No. | ER 746710164 US | | | | |

| <u> </u> | | | Express : | iali Label IVO. | | | | |
|---|--|---|-----------------------------------|-------------------------------------|--|---|---|--|
| See MPEP o | | N ELEMENTS ng utility patent application contents. | ADDRE | SS TO: | Commission P.O. Box 1 | Patent Appl oner for Pat 450 VA 22313 | ents | . ZX |
| (Submit Applica See 37 Applica See 37 Specification (preferm - Descriptor - Cross - Stater - Referm or a condition - Backgrame - Brief September - Detailling - Claim | ant claims small en CFR 1.27. cation ed arrangement set fi iptive title of the inver Reference to Relater ence to sequence list omputer program list pround of the Invertio Summary of the Invertio Description of the Dra ded Description | olicate for fee processing) http status. [Total Pages 42] orth below) htton d Applications sponsored R & D ing, a table, ng appendix n htton | 8. Nucle (if app a. [b. | Specifica i. | ram (Apper mino Acid S essary) r Readable tion Sequer -ROM or CI per | ndix) Sequence Form (CR nce Listing D-R (2 cop | Subr F) g on: pies); | or ve copies |
| 4. | laration My executed (original property of the | lication (37 CFR 1.63(d)) onal with Box 18 completed) VENTOR(S) ached deleting inventor(s) lication, see 37 CFR 1). See 37 CFR 1.76 ION, check appropriate box, and supin an Application Data Sheet under 3 Divisional Examiner To be assigned APPS only; The entire disclosure of the | 7 CFR 1.76: ation-in-part (C | isite informatio | (b) Statemes an assign station Documents and assign provided by the provided b | (MPEP 5 emized) Documer 1964) Under 35 est attach 1 the amount of in the first recording to the declaration of the declaration | PA A Population Co. | ower of ttorney able) opies of IDS itations 2. 122 PTO/SB/35 437.00 |
| 5b, is considered | d a part of the disclo | sure of the accompanying continuation upon when a portion has been inadver | n or divisiona tently omitte | l application an d from the subn | d is hereby i | ncorporate | ed by | reference. |
| | | 19. CORRESPON | DENCE AL | DDRESS | | | | |
| Custom | er Number: | | | OR [| Corres | pondence | add | ress below |
| Name | Pulse-Link, Inc. (A | Attention: Steve Moore) | | | | | | |
| Address | 1969 Kellogg Aver | nue | | | | | | |
| | Carlsbad | | State CA | | | Zip Co | ode | 92008 |
| Country | U.S.A. | 7 | elephone 7 | 60.607.0844 | | Fax | (| |
| Name (Print/Ty | pe) | | Registration | on No. (Attorne | y/Agent) | | | |
| Signature | | | | | | Date | | |

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Name (Print/Type)

Signature

PTO/SB/17 (10-03)
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|---|--------------------------------|---------------------------------|---|--|--|--|
| S FFF TDANK | PARTTAI | Complete if Known | | | | |
| FEE TRANSMITTAL | | Application Number | To be assigned | | | |
| for FY 2004 | | Filing Date | February 10, 2004 John SANTHOFF | | | |
| | | First Named Inventor | | | | |
| Effective 10/01/2003. Patent fees are s | | Examiner Name | To be assigned | | | |
| Applicant claims small entity status. See 37 CFR 1.27 | | Art Unit | To be assigned | | | |
| TOTAL AMOUNT OF PAYMENT | (\$) 437.00 | Attorney Docket No. | 028CIP-119 | | | |

| METHOD OF PAYMENT (check all that apply) | FEE CALCULATION (continued) | | | | | |
|---|-----------------------------|-----------------------------|--------------|-------------|--|----------|
| Check Credit card Money Other None | | 3. ADDITIONAL FEES | | | | |
| Deposit Account: | | Large Entity Small Entity | | | | |
| Deposit | Fee Fe Code (\$ | | | Fee (\$) | Fee Description | Fee Paid |
| Account Number | | · I | 2051 | | Surcharge - late filing fee or oath | |
| Deposit | 1052 | 50 | 2052 | | Surcharge - late provisional filing fee or | |
| Account Name | 1053 1 | 30 | 1053 | | cover sheet Non-English specification | |
| The Director is authorized to: (check all that apply) | 1812 2,5 | | 1812 2 | | For filing a request for ex parte reexamination | |
| Charge fee(s) indicated below Credit any overpayments | · · | 920* | 1804 | | Requesting publication of SIR prior to | } |
| Charge any fee(s) due during the pendency of this application | | | | | Examiner action | |
| Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account. | 1805 1,8 | 840* | 1805 1 | 1,840* | Requesting publication of SIR after Examiner action | |
| FEE CALCULATION | 1251 - 1 | 110 | 2251 | 55 | Extension for reply within first month | |
| 1. BASIC FILING FEE | 1252 4 | 420 | 2252 | 210 | Extension for reply within second month | |
| Large Entity Small Entity | 1253 9 | 950 | 2253 | 475 | Extension for reply within third month | |
| Fee Fee Fee Fee Fee Description Fee Paid Code (\$) Code (\$) | 1254 1,4 | 480 | 2254 | 740 | Extension for reply within fourth month | |
| 1001 770 2001 385 Utility filing fee | 1255 2,0 | 010 | 2255 | 1,005 | Extension for reply within fifth month | |
| 1002 340 2002 170 Design filing fee | 1401 3 | 330 | 2401 | 165 | Notice of Appeal | |
| 1003 530 2003 265 Plant filing fee | 1402 3 | 330 | 2402 | 165 | Filing a brief in support of an appeal | |
| 1004 770 2004 385 Reissue filing fee | 1403 2 | 290 | 2403 | 145 | Request for oral hearing | |
| 1005 160 2005 80 Provisional filing fee | 1451 1,5 | 510 | 1451 | 1,510 | Petition to institute a public use proceeding | |
| SUBTOTAL (1) (\$) 385.00 | 1452 1 | 110 | 2452 | 55 | Petition to revive - unavoidable | |
| 2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE | | 330 | 2453 | 665 | Petition to revive - unintentional | |
| Fee from | 1501 1,3 | - 1 | 2501 | | Utility issue fee (or reissue) | |
| Extra Claims below Fee Paid Total Claims 21 -20** = 1 x 9 = 9 | | 480 | 2502 | | Design issue fee | |
| Independent 4 3** - 1 × 43 -43 | | 640 | 2503 1460 | | Plant issue fee Petitions to the Commissioner | |
| Claims 43 443 443 Multiple Dependent = | 1807 | 130 | 1807 | | | |
| Large Entity Small Entity | | 50 | 1807 | | Processing fee under 37 CFR 1.17(q) Submission of Information Disclosure Stmt | |
| Fee Fee Fee <u>Fee Description</u> | | 180 | | | Recording each patent assignment per | |
| Code (\$) | 8021 | 40 | 8021 | 40 | property (times number of properties) | |
| 1201 86 2201 43 Independent claims in excess of 3 | 1809 7 | 770 | 2809 | 385 | Filing a submission after final rejection (37 CFR 1.129(a)) | |
| 1203 290 2203 145 Multiple dependent claim, if not paid | 1810 7 | 770 | 2810 | 385 | For each additional invention to be | |
| 1204 86 2204 43 ** Reissue independent claims | | | | | examined (37 CFR 1.129(b)) | |
| over original patent | | 770 | 2801 | | Request for Continued Examination (RCE) | |
| 1205 18 2205 9 ** Reissue claims in excess of 20 and over original patent | 1802 9 | 900 | 1802 | 900 | Request for expedited examination of a design application | |
| SUBTOTAL (2) (\$) 52.00 | Other fee | | | | | |
| *Reduced by Basic Filing Fee Paid SUBTOTAL (3) (\$) | | | | | | |
| SUBMITTED BY (Complete (if applicable)) | | | | | | |

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Registration No.

(Attorney/Agent)

Telephone

Date